



Bergamid™ B70 G45 BK

Polyamide 6

Key Characteristics

Product Description	
6016133	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
Features	• Good Dimensional Stability • Good Stiffness • Good Flow • Halogen Free
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F (23°C))	1.52	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow ²				ISO 294-4
73°F (23°C), 157 in (4000 mm)	0.080 to 0.60	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.89E+6 (13000)	1.45E+6 (10000)	psi (MPa)	
Tensile Strength ³				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	27800 (192)	21800 (150)	psi (MPa)	
Tensile Elongation ³				ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.5	3.5	%	
Flexural Modulus (73°F (23°C))	1.78E+6 (12300)	--	psi (MPa)	ISO 178
Flexural Stress (73°F (23°C))	42100 (290)	--	psi (MPa)	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	5.2 (11)	--	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	41 (87)	--	ft·lb/in ² (kJ/m ²)	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	HB		

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

Notes

¹ Typical values are not to be construed as specifications.

² Bergmann method

³ 0.20 in/min (5.0 mm/min)

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